

# Toshiki Watanabe

## List of Publications by Year in descending order

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33  
papers

417  
citations

687363

13  
h-index

794594

19  
g-index

34  
all docs

34  
docs citations

34  
times ranked

270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anion Substitution at Apical Sites of Ruddlesden-Popper-type Cathodes toward High Power Density for All-Solid-State Fluoride-Ion Batteries. <i>Chemistry of Materials</i> , 2022, 34, 609-616.	6.7	13
2	Studies on the inhibition of lithium dendrite formation in sulfide solid electrolytes doped with LiX (X=Br, I). <i>Solid State Ionics</i> , 2022, 377, 115869.	2.7	15
3	Nanoscale in situ observation of damage formation in carbon fiber/epoxy composites under mixed-mode loading using synchrotron radiation X-ray computed tomography. <i>Composites Science and Technology</i> , 2022, 230, 109332.	7.8	8
4	High Rate Capability from a Graphite Anode through Surface Modification with Lithium Iodide for All-Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 667-673.	5.1	15
5	State of the Active Site in La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> Under Oxygen Evolution Reaction Investigated by Total-Reflection Fluorescence X-Ray Absorption Spectroscopy. <i>ACS Applied Energy Materials</i> , 2022, 5, 4108-4116.	5.1	4
6	Understanding the reaction mechanism and performances of 3d transition metal cathodes for all-solid-state fluoride ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 406-412.	10.3	33
7	<i>Operando</i> X-ray Absorption Spectroscopic Study on the Effect of Ionic Liquid Coverage upon the Oxygen Reduction Reaction Activity of Pd-core Pt-shell Catalysts. <i>Electrochemistry</i> , 2021, 89, 31-35.	1.4	4
8	Kinetic analysis and alloy designs for metal/metal fluorides toward high rate capability for all-solid-state fluoride-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7018-7024.	10.3	16
9	High Ionic Conductivity of Liquid-Phase-Synthesized Li <sub>3</sub> PS <sub>4</sub> Solid Electrolyte, Comparable to That Obtained via Ball Milling. <i>ACS Applied Energy Materials</i> , 2021, 4, 2275-2281.	5.1	33
10	Cu-Pb Nanocomposite Cathode Material toward Room-Temperature Cycling for All-Solid-State Fluoride-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3352-3357.	5.1	18
11	Impact of the Composition of Alcohol/Water Dispersion on the Proton Transport and Morphology of Cast Perfluorinated Sulfonic Acid Ionomer Thin Films. <i>ACS Omega</i> , 2021, 6, 14130-14137.	3.5	6
12	Rate-Determining Process at Electrode/Electrolyte Interfaces for All-Solid-State Fluoride-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30198-30204.	8.0	14
13	Investigation of the Suppression of Dendritic Lithium Growth with a Lithium-Iodide-Containing Solid Electrolyte. <i>Chemistry of Materials</i> , 2021, 33, 4907-4914.	6.7	30
14	Quantitative Evaluation of the Activity of Low-Spin Tetravalent Nickel Ion Sites for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 10731-10738.	5.1	5
15	Phase Transition Behavior of MgMn <sub>2</sub> O <sub>4</sub> Spinel Oxide Cathode during Magnesium Ion Insertion. <i>Chemistry of Materials</i> , 2021, 33, 1006-1012.	6.7	24
16	<i>Operando</i> X-ray Absorption Spectroscopic Study on the Influence of Specific Adsorption of the Sulfo Group in the Perfluorosulfonic Acid Ionomer on the Oxygen Reduction Reaction Activity of the Pt/C Catalyst. <i>ACS Applied Energy Materials</i> , 2021, 4, 1143-1149.	5.1	15
17	Reversible and Fast (De)fluorination of High-Capacity Cu <sub>2</sub> O Cathode: One Step Toward Practically Applicable All-Solid-State Fluoride-Ion Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2102285.	19.5	23
18	The Effect of Cation Mixing in LiNiO <sub>2</sub> toward the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2021, 8, 70-76.	3.4	4

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19	Development of in situ cell for simultaneous XAFS/XRD measurements at high temperatures. <i>Radiation Physics and Chemistry</i> , 2020, 175, 108153.	2.8	3
20	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. <i>ACS Omega</i> , 2020, 5, 26287-26294.	3.5	22
21	Nanoscale crack initiation and propagation in carbon fiber/epoxy composites using synchrotron: 3D image data. <i>Data in Brief</i> , 2020, 31, 105894.	1.0	0
22	Substrate-dependent proton transport and nanostructural orientation of perfluorosulfonic acid polymer thin films on Pt and carbon substrate. <i>Solid State Ionics</i> , 2020, 357, 115456.	2.7	4
23	Effect of Interaction among Magnesium Ions, Anion, and Solvent on Kinetics of the Magnesium Deposition Process. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28510-28519.	3.1	19
24	Nanoscale in situ observations of crack initiation and propagation in carbon fiber/epoxy composites using synchrotron radiation X-ray computed tomography. <i>Composites Science and Technology</i> , 2020, 197, 108244.	7.8	29
25	<i>Operando</i> soft X-ray absorption spectroscopic study on microporous carbon-supported sulfur cathodes. <i>RSC Advances</i> , 2020, 10, 39875-39880.	3.6	8
26	Finding Degradation Trigger Sites of Structural Materials for Airplanes Using X-ray Microscopy. <i>Chemical Record</i> , 2019, 19, 1462-1468.	5.8	3
27	Development of spectromicroscopes for multiscale observation of heterogeneity in materials at photon factory, IMSS, KEK. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	4
28	Nanoscale origin of cracks in carbon fibre-reinforced plastic composites. <i>Scientific Reports</i> , 2019, 9, 19300.	3.3	27
29	In situ XRM Observation of Cracking in CFRP during Nanomechanical Testing. <i>Microscopy and Microanalysis</i> , 2018, 24, 432-433.	0.4	2
30	3D Spectromicroscopic Observation of Yb-Silicate Ceramics Using XAFS-CT. <i>Microscopy and Microanalysis</i> , 2018, 24, 484-485.	0.4	6
31	Stability of Copper Nitride Nanoparticles under High Humidity and in Solutions with Different Acidity. <i>Chemistry Letters</i> , 2015, 44, 755-757.	1.3	2
32	Development of dispersive XAFS system for analysis of time-resolved spatial distribution of electrode reaction. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1227-1232.	2.4	3
33	Quadruple perovskite oxides CaMn <sub>7</sub> O <sub>12</sub> proceed by two active site reaction mechanism for oxygen evolution reaction. <i>ChemElectroChem</i> , 0, , .	3.4	5